

*Please provide the following information, and submit to the NOAA DM Plan Repository.*

**Reference to Master DM Plan (if applicable)**

*As stated in Section IV, Requirement 1.3, DM Plans may be hierarchical. If this DM Plan inherits provisions from a higher-level DM Plan already submitted to the Repository, then this more-specific Plan only needs to provide information that differs from what was provided in the Master DM Plan.*

URL of higher-level DM Plan (if any) as submitted to DM Plan Repository:

**1. General Description of Data to be Managed****1.1. Name of the Data, data collection Project, or data-producing Program:**

2007 Lidar DEM: Jasper, Colleton, Charleston Counties, SC

**1.2. Summary description of the data:**

Digital Elevation Model (DEM) derived from lidar data.

LiDAR data collection was performed utilizing a Leica ALS-50 sensor, collecting multiple return x, y, and z data as well

as intensity data. LiDAR data was processed to achieve a bare ground surface, and was delivered in LAS format. Classified LAS

data was also used as a base for collection of hydro features, delivered in MicroStation v8 format. The dates of collection are:

1. JASPER COUNTY (full county): 20061227 to 20070216
2. COLLETON COUNTY (full county): 20070216 to 20070323
3. CHARLESTON COUNTY (Partial County): 20070222 to 20070223

**1.3. Is this a one-time data collection, or an ongoing series of measurements?**

One-time data collection

**1.4. Actual or planned temporal coverage of the data:**

2006-12-27 to 2007-03-23

**1.5. Actual or planned geographic coverage of the data:**

W: -81.283784, E: -79.69763, N: 33.182564, S: 32.035599

**1.6. Type(s) of data:**

*(e.g., digital numeric data, imagery, photographs, video, audio, database, tabular data, etc.)*

**1.7. Data collection method(s):**

*(e.g., satellite, airplane, unmanned aerial system, radar, weather station, moored buoy, research vessel, autonomous underwater vehicle, animal tagging, manual surveys,*

*enforcement activities, numerical model, etc.)*

**1.8. If data are from a NOAA Observing System of Record, indicate name of system:**

**1.8.1. If data are from another observing system, please specify:**

**2. Point of Contact for this Data Management Plan (author or maintainer)**

**2.1. Name:**

NOAA Office for Coastal Management (NOAA/OCM)

**2.2. Title:**

Metadata Contact

**2.3. Affiliation or facility:**

NOAA Office for Coastal Management (NOAA/OCM)

**2.4. E-mail address:**

coastal.info@noaa.gov

**2.5. Phone number:**

(843) 740-1202

**3. Responsible Party for Data Management**

*Program Managers, or their designee, shall be responsible for assuring the proper management of the data produced by their Program. Please indicate the responsible party below.*

**3.1. Name:**

**3.2. Title:**

Data Steward

**4. Resources**

*Programs must identify resources within their own budget for managing the data they produce.*

**4.1. Have resources for management of these data been identified?**

**4.2. Approximate percentage of the budget for these data devoted to data management (specify percentage or "unknown"):**

**5. Data Lineage and Quality**

*NOAA has issued Information Quality Guidelines for ensuring and maximizing the quality, objectivity, utility, and integrity of information which it disseminates.*

### **5.1. Processing workflow of the data from collection or acquisition to making it publicly accessible**

*(describe or provide URL of description):*

Process Steps:

- 2007-03-23 00:00:00 - JASPER COUNTY: Utilizing Photo Science's two ALS-50 LiDAR sensors, data was collected to cover Jasper County, South Carolina. Data was collected in a total of 111 flightlines at a pulse rate of 75,000 points per second. COLLETON COUNTY: Utilizing Photo Science's two ALS-50 LiDAR sensors, data was collected to cover Colleton County, South Carolina. Data was collected in a total of 160 flightlines at a pulse rate of 75,000 points per second. CHARLESTON COUNTY: Utilizing Photo Science's two ALS-50 LiDAR sensors, data was collected to cover Charleston County, South Carolina. Data was collected in a total of 77 flightlines at a pulse rate of 75,000 points per second.
- 2007-10-30 00:00:00 - Raw LiDAR data (collected as Process Step 1) was processed to create a bare ground surface. Process included calibration of LiDAR data to remove systematic errors (utilizing Leica's ALS Processor software), adjustment of elevation data to control positions (utilizing TerraScan software for control comparisons and adjustments), and both automatic and manual editing to correctly classify ground and non-ground data (utilizing TerraScan and TerraModeler software). In addition, QC steps were performed before and after processing. QC steps included line-to-line vertical comparisons and coverage checks, and were performed with TerraScan and GeoCue software. (Citation: Raw Lidar)
- 2007-10-30 00:00:00 - Following bare ground surface creation (Process Step 2), Photo Science utilized the resulting dataset as a source for collection of hydrographic features, including double-line drains, single-line drains, and bodies of water. Hydro features were collected from bare ground surface models in MicroStation v8 software. After collection was complete, Photo Science adjusted elevation of all hydro features to ensure proper monotonicity using FME and proprietary software. (Citation: Classified Lidar)
- 2008-03-21 00:00:00 - The NOAA Office for Coastal Management (OCM) received DEM files in ASCII XYZ format. Global Mapper version 20.1 was used to convert the data from XYZ format to GeoTIFF. (Citation: Digital Elevation Models)

**5.1.1. If data at different stages of the workflow, or products derived from these data, are subject to a separate data management plan, provide reference to other plan:**

### **5.2. Quality control procedures employed (describe or provide URL of description):**

## **6. Data Documentation**

*The EDMC Data Documentation Procedural Directive requires that NOAA data be well documented, specifies the use of ISO 19115 and related standards for documentation of new data, and provides links to resources and tools for metadata creation and validation.*

**6.1. Does metadata comply with EDMC Data Documentation directive?**

No

**6.1.1. If metadata are non-existent or non-compliant, please explain:**

Missing/invalid information:

- 1.6. Type(s) of data
- 1.7. Data collection method(s)
- 3.1. Responsible Party for Data Management
- 4.1. Have resources for management of these data been identified?
- 4.2. Approximate percentage of the budget for these data devoted to data management
- 5.2. Quality control procedures employed
- 7.1. Do these data comply with the Data Access directive?
- 7.1.1. If data are not available or has limitations, has a Waiver been filed?
- 7.1.2. If there are limitations to data access, describe how data are protected
- 7.4. Approximate delay between data collection and dissemination
- 8.1. Actual or planned long-term data archive location
- 8.3. Approximate delay between data collection and submission to an archive facility
- 8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?

**6.2. Name of organization or facility providing metadata hosting:**

NMFS Office of Science and Technology

**6.2.1. If service is needed for metadata hosting, please indicate:****6.3. URL of metadata folder or data catalog, if known:**

<https://www.fisheries.noaa.gov/inport/item/58130>

**6.4. Process for producing and maintaining metadata**

*(describe or provide URL of description):*

Metadata produced and maintained in accordance with the NOAA Data Documentation Procedural Directive: [https://nosc.noaa.gov/EDMC/DAARWG/docs/EDMC\\_PD-Data\\_Documentation\\_v1.pdf](https://nosc.noaa.gov/EDMC/DAARWG/docs/EDMC_PD-Data_Documentation_v1.pdf)

**7. Data Access**

*NAO 212-15 states that access to environmental data may only be restricted when distribution is explicitly limited by law, regulation, policy (such as those applicable to personally identifiable information or protected critical infrastructure information or proprietary trade information) or by security requirements. The EDMC Data Access Procedural Directive contains specific guidance, recommends the use of open-standard, interoperable, non-proprietary web services, provides information about resources and tools to enable data access, and includes a Waiver to be submitted to justify any approach other than full, unrestricted public access.*

**7.1. Do these data comply with the Data Access directive?**

**7.1.1. If the data are not to be made available to the public at all, or with limitations, has a Waiver (Appendix A of Data Access directive) been filed?**

**7.1.2. If there are limitations to public data access, describe how data are protected from unauthorized access or disclosure:**

**7.2. Name of organization of facility providing data access:**

NOAA Office for Coastal Management (NOAA/OCM)

**7.2.1. If data hosting service is needed, please indicate:****7.2.2. URL of data access service, if known:**

<https://coast.noaa.gov/dataviewer/#/lidar/search/where:ID=8915>

[https://coast.noaa.gov/htdata/raster2/elevation/NOAA\\_Chase\\_Col\\_Jas\\_SC\\_2007\\_8915](https://coast.noaa.gov/htdata/raster2/elevation/NOAA_Chase_Col_Jas_SC_2007_8915)

**7.3. Data access methods or services offered:**

This data can be obtained on-line at the following URL: <https://coast.noaa.gov/dataviewer>.

The data set is dynamically generated based on user-specified parameters.

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**7.4. Approximate delay between data collection and dissemination:**

**7.4.1. If delay is longer than latency of automated processing, indicate under what authority data access is delayed:**

**8. Data Preservation and Protection**

*The NOAA Procedure for Scientific Records Appraisal and Archive Approval describes how to identify, appraise and decide what scientific records are to be preserved in a NOAA archive.*

**8.1. Actual or planned long-term data archive location:**

*(Specify NCEI-MD, NCEI-CO, NCEI-NC, NCEI-MS, World Data Center (WDC) facility, Other, To Be Determined, Unable to Archive, or No Archiving Intended)*

**8.1.1. If World Data Center or Other, specify:****8.1.2. If To Be Determined, Unable to Archive or No Archiving Intended, explain:**

**8.2. Data storage facility prior to being sent to an archive facility (if any):**

Office for Coastal Management - Charleston, SC

**8.3. Approximate delay between data collection and submission to an archive facility:**

**8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?**

*Discuss data back-up, disaster recovery/contingency planning, and off-site data storage relevant to the data collection*

**9. Additional Line Office or Staff Office Questions**

*Line and Staff Offices may extend this template by inserting additional questions in this section.*